DCA13MR002
Conrail - Shared Assets
Derailment/Hazardous Material Release
Paulsboro, New Jersey
November 30, 2012

Hazardous Materials

Group Factual Report

ATTACHMENT 60 –

HAZARDOUS MATERIALS GROUP

DERAILMENT SCENE DOCUMENTATION NEEDS

Hazardous Materials Group Derailment Scene Documentation Needs

1. Car OCPX 080234: Photographs of the breach in tank car and photograph the impacting car from as many angles as possible. Close-up photos of body bolster and any witness marks it left on the tank shell. Close-up photos of the point of impact.

2. General Photographs: Take photos at a minimum of each tank head and each quadrant of the tank shell (i.e. A-R, A-L, B-R, B-L). Immediate surroundings of tank cars. For damage to individual cars, provide perspective and scale.

3. Valves and Fittings: Photograph protective housings, any exposed valves and fittings, including the bottom outlet of the ethanol tank car. Note the condition of the valve handle and nozzle and whether it is broken or sheared off.

4. Tank Damage: Measure, document and photograph any witness marks, dents, scores, gouges, cracks, punctures, or tears. Note the location and orientation on the tank and whether they cross welds.

5. Welds: Measure, document and photograph and separated or fractured welds and note their locations on the tank. Particularly the condition of the sill to pad welds, and pad to tank welds. Look for fractures at the toe of welds into the tank shell.

6. Draft Sill: Measure, document and photograph damage to the coupler, striker plate on sill, deformation (bending, bulging, direction of deformation) of draft sill.

7. Markings: Record car stencil and specification plate information.

8. Debris: Examine the debris field on the bridge for evidence of tank car-related items.

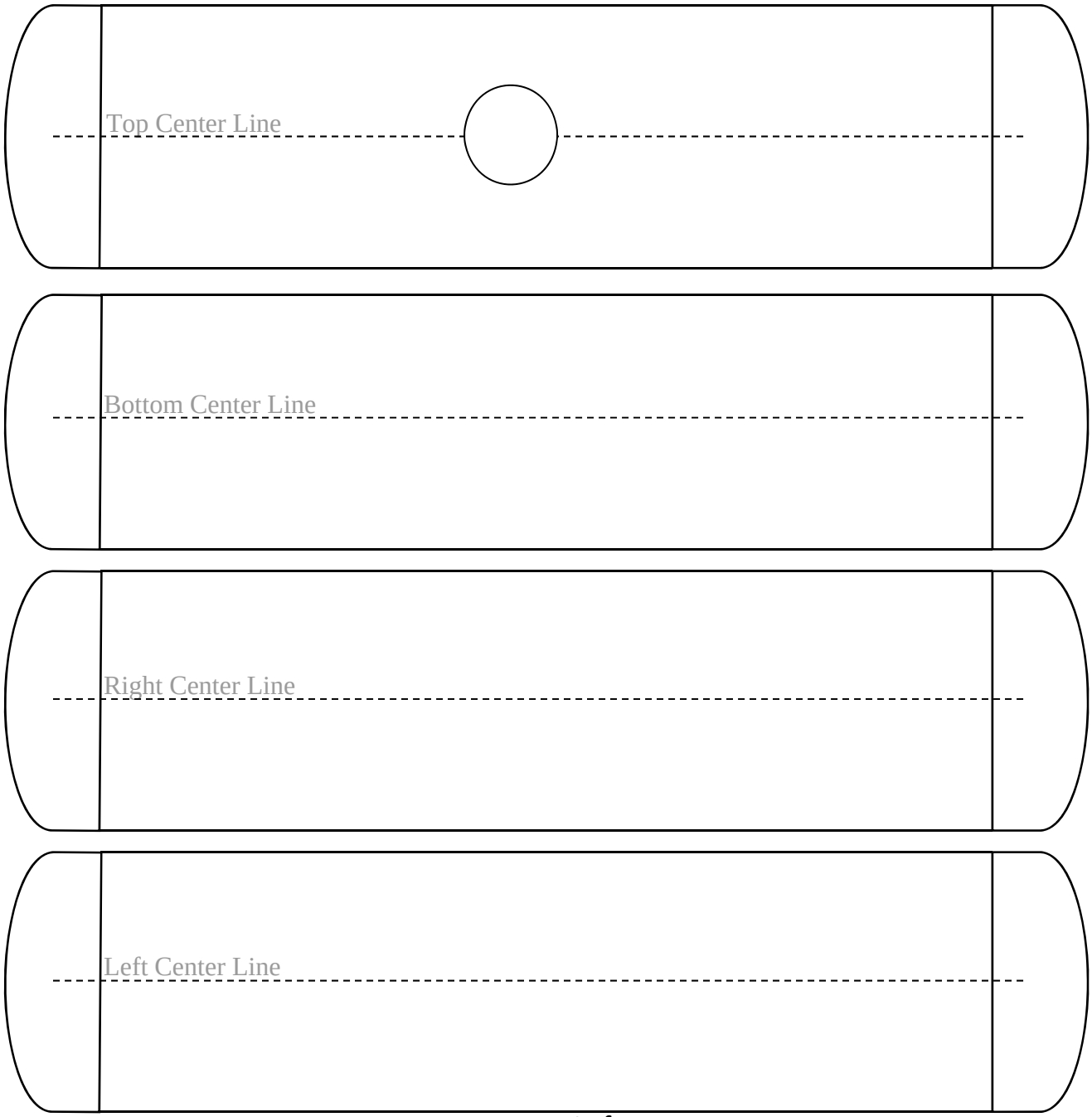
9. Complete the attached damage assessment form as much as possible.

National Transportation Safety Board
Tank Car Damage Assessment Form

Reporting Marks				Car Location City/State	
Date inspected		Railroad		DOT Specification	
Last Contained				Was product released?	
(Indicate One)	Jacket			Does car contain product	
Car builder		Stub Sill Design		Built Date	
Capacity (GAL)				LD Limit (LB)	

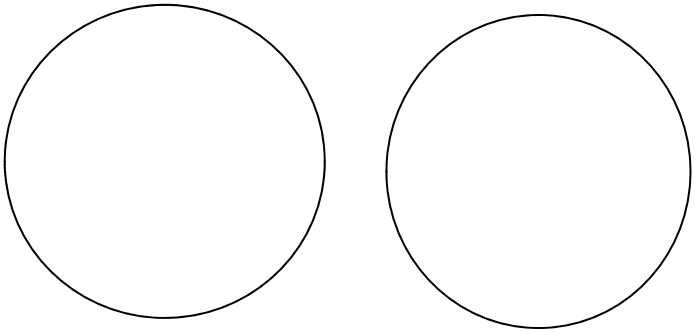
Indicate number on figures below within damaged areas. (sketched in by inspector)

A-END



National Transportation Safety Board
Tank Car Damage Assessment Form

B-Head **A-Head**



	Station Stencil	Qual.	Due
Tank Qual.			
Thickness			
Serv. Equip.			
PRD			
Lining			
Rule 88			
Stub Sill			

Comments:

TANK OR JACKET DAMAGE

1. **Document estimated location of damage on Figures located on page 1 of this report and document dimensions coinciding with number below. (photos should be numbered and attached to coincide with numbers below)**

1.	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
2	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
3	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
4	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
5	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
6	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
7	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						
8	**Affected?**		**Location?**		**Dimensions:**	**Length**		**Width**		**Depth**	
-	**Defect type?**		**Shape?**		**Possible Cause?**						

2. **Was this tank car exposed to fire?**
3. **How long was the car exposed to fire?**
4. **What percentage/locations of the tank were exposed to fire? Indicate location in figures on page 1.**
5. **What material burned to create the fire that the car was exposed to?**
6. **To what degree did the car roll? Initially ° degrees and stopped at °**
7. **Distance traveled from track center? B-end? _____A-end? _____Center? _____**

8. Brief description of details of surfaces tank was exposed after derailment? E.g. mud, track, rocks, etc...

VALVE DAMAGE

Utilize Form TCAD-1.2 and supplement description as indicative of damage below:

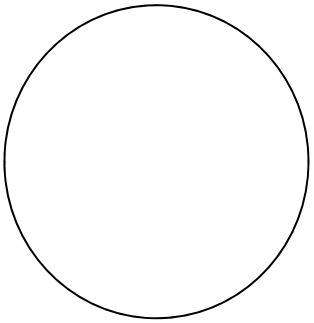
TOP

1. Number of damaged valves?_____ Document station stencil if other than qual. Decal _____

a	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
b	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
c	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
d	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
e	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
	Gasket Type?		**O-ring type?**		**Serial Number**	

Sketch in dome or dual housing arrangement information in relation to valve location in provided figure. Valve Lettering should coincide with lettering above, along with any attached pictures.

A-End



BOTTOM

2. Description of damage? Valve, Coils etc…_____Document station stencil if other than qual. Decal_____

a	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
b	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
c	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
d	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
-	**Gasket Type?**		**O-ring type?**		**Serial Number**	
e	**Type of damaged valve?**		**Manufacturer?**		**Cause?**	
	Gasket Type?		**O-ring type?**		**Serial Number**	

Other information or description deemed pertinent by inspector:

Inspector's Name _____